Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

GAU-ADC-48-160W-LED-D-V2

160W High Bay LED Fixture - Low Profile - Dimmable - General Area Use - DALI Network

Product ID: 153732

Please see last page for supporting documentation for this product(certificates, CAD files & drawings, IES files, wiring diagrams, etc).



Larson Electronics LLC manufactures a wide variety of products, including custom built to spec designs. The pictures displayed for this unit are a general representation of form factor for the product line and may not accurately represent this exact configuration in every detail due to custom builds and changes between similar products in our standard catalog. The specifics for this configuration are listed in the specification table and supporting documentation (CAD files, Dimensional Drawing, Name Plate Diagram, Wiring Diagram, etc.). This means that specific details (receptacles, plugs, wires, connections, mounting brackets, external finishes, etc.) may not be accurately represented in images vs specifications. Please review specifications and do not order based solely on images.

GAU-ADC-48-160W-LED-D-V2 4` LED High Bay Linear

Lamp Type: LED
Dimensions:50"-L x 9"-W x 6"-H
Weight: 10 lbs
Total Watts: 160W
Voltage: 120-277V AC 50/60 Hz or 12-24V AC/DC - 347-480V optional
LED Lamp Life Expectancy: 50,000+ Hours
Beam Angle: 160°
Luminous Efficiency: 120 lm/w
Total Lumens: 19,200
Color Temp: 6000K
Ambient Temp Range: -30°C to +60°C
Dimmable: Yes - 0-10V
Power Efficiency: >90%
Power Factor: >0.95
Mounting: Surface Mount Brackets
Wiring: 10` Whip w/ Flying Leads
Materials: Aluminum Housing / Polycarbonate Lens

Features

1:1 Direct Replacement for 4` 4L T5HOs
50,000+ Hour LED Life Span
80% Lumen Retention after 50,000 Hours
Reduced Energy Consumption With Improved Output
Vapor Proof
Vibration Shock Resistant
IP65 Rated Waterproof
Outdoor Approved
0-10V Dimming
MOV Surge Suppression
Password Protected Network Controls
No Programming Required
Modbus TCP/IP Connectivity
DALI or Push Dim
PWM Output Signal

Signal Converter Specs

Watts: 0.5W
Input Voltage: 90-306V AC or 127-431V DC @ 47- 63Hz
Current: 0.1A

Input Signal: DALI or Push Dim

Output Channels: 4

Output Signal: PWM

Output Logic: Active High or Active Low

Dimming Range: 1-100%

Relay Switch: 240V AC, On/Off

Operating Temperature: -30? to +60?

Housing Material: Fully Isolated Plastic

Connection: Terminals (TB1, TB2 and JP1)

Analog Output Module Specs

Dimensions: 1.41" x 3.88" x 3.1"

Weight: 4.8 oz

Network Type: 10/100 Base-T Ethernet Port (Static IP address assignment or DHCP, HTTP Port Selectable)

Protocols: HTTP, XML, Modbus TCP/IP

Voltage: 9-28V DC

Max Current: 92mA-163mA @ 24V DC (10 Mbps Network Speed; 126mA-198mA @ 24V DC (100 Mbps Network Speed)

Configurable Channels: 5

Output Ranges: 0-5V, 0-10V, ±5V, ±10V, 4-20mA (Software Selectable)

Resolution: 16-bit DAC (0-65535)

Current Output (Voltage Mode): 10mA Max (Min Load = 1K), 30mA Max Short Circuit

Voltage Output Inaccuracy: ±0.2% FSR Includes Offset Error, Gain Error and Non-linearity Error

Max Load Capacitance: 20nF (no load), 5nF (1K load)

Current Output Range: 4-20mA

Output Compliance Voltage: 11.50V Minimum

Isolated Power Supply: Internal DC to DC Converter

Isolation: Galvanic, 1500V AC

ESD Protection: Integrated, 15kV Protection

Output Protection: Integrated Over-temperature, Open-line and Short Circuit Protection

Output Alarms: Open Current Loop, High Internal Temperature

Output @ Power Up: Programmable

LED Indicators: (8) Power On, Fault Condition (Channels 1-5), Network Linked, Network Activity

Operating Temperature: -40°C to 65.5°C

Housing Material: Lexan 940 Polycarbonate Plastic

Mount: Surface, Wall or DIN Rail

Password Protection: Yes @ Setup (Base 64 Encoding, 13 Characters)

Connectors: 12-position/Removable (Power/Outputs), 8-pin RJ-45 (Network)

Special Orders - Special Requirements

Contact us for special requirements

Intl: 1-903-270-1187

Toll Free: 1-800-369-6671

Fax: 1-903-498-3364

E-mail: sales@larsonelectronics.com

The Larson Electronics GAU-ADC-48-160W-LED-D-V2 Dimmable General Use High Bay LED Fixture is a connected lighting solution that provides 19,200 lumens of illumination in rugged work sites. Equipped with a DALI-PWM signal converter, this low profile, highly efficient LED light fixture is a direct replacement for existing four lamp T5HO fixtures, providing twice the lamp life, increased durability, and less energy consumption. Controls for the dimmable LED unit is facilitated by an analog output module using Modbus TCP/IP protocol. No programming is required during setup.

The GAU-ADC-48-160W-LED-D-V2 integrated 160 Watt LED light fixture is a low profile linear light fixture that provides 19,200 lumens of bright light in a 160° wide flood beam spread. Special heat dissipating design in conjunction with LED technology helps this fixture to achieve an excellent 60,000 hour rated lifespan

with 80% lumen retention. The GAU-ADC-48-160W-LED-D-V2 is housed in aluminum casing and the LED assembly is protected by a shatter resistant polycarbonate lens. This unit is multi voltage, operating on 110-277 AC 50/60 Hz, and supplied with a 10` line-in cable with flying leads. We also offer a low voltage 12-24V AC/DC model for low voltage applications, such as off the grid and remote locations powered by alternative energy.

Aevum Network Controlled Lighting Solution: The Aevum Network Controlled Lighting Solution from Larson Electronics enables connected and intelligent illumination using cutting-edge and existing networks. Using Modbus TCP/IP or DALI (for fixtures with dimming features), businesses can seamlessly control lights and sensors from remote locations, without traditional light switches. Web-based panels facilitate real-time monitoring of connected equipment and allows operators to switch units on/off, configure activation settings and more. Businesses may utilize their own systems and software with these controllers, ensuring robust flexibility and cost savings (no contracts). The Aevum Network Controlled Lighting Solution can improve productivity in the workplace by automating basic lighting controls and making lighting controls widely accessible in the facility, via local networks or the internet. Operators also have the option to monitor the status of fixtures from a remote location, which can improve maintenance and reduce downtimes. Larson Electronics offers equipment and accessories required for a DALI network.

Controls: Controls for the LED fixture is accessible using a web-based control panel. Compatible with HTTP, XML, or Modbus TCP/IP protocols, network configuration is accessible using web-based pages (no programming required). Operators can monitor or setup controls from a remote area using the internet or local IP network and any standard web browser. Protective features include: integrated 15kV protection (ESD protection), integrated over-temperature, open-line and short circuit. Output alarms can be set for open current loop and high internal temperature. LED indicator lights on the device provide the real-time information about power, fault condition for all 5 channels and network link/activity. Password protection for the setup page is available (13 characters maximum). Operators can upload scripts during setup using the web-based panel.

Signal Converter: The LED lighting system is equipped with a signal converter, which converts DALI signals to PWM signals. This component features built-in push dim functionality and a comprehensive dimming range of 1-100%. A total of four output channels can be found on the DALI-PWM signal converter. Selectable output PWM logic includes active high (factory setting) or active low.



Click Photo to Enlarge



Click Photo to Enlarge

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The GAU-ADC-48-160W-LED-D-V2 offers 0-10V dimming. With 0-10V dimming, the supply fixture is equipped with a secondary low voltage dimming cable to control the light intensity of the fixture. This secondary signal cable is connected to the user provided dimming controls to dim the light fixtures. 0-10V dimming provides ten points of light intensity, with 100% light output at 10V and 0% light output at 0V. LED light fixtures capable of 0-10V dimming are compatible with Mark 10 style dimmer switches.

LED Drivers: Even in LED fixtures, heat is the single largest factor in premature light failure and color shifting. As a result, many manufacturers reduce the output of their LEDs in order to reduce the amount of heat produced. Rather than lower light output or quality, Larson Electronics addresses this problem with the addition of an electronic LED driver. This internal driver provides the ability to

automatically monitor and adjust input current to maintain the correct LED voltage levels regardless of input levels across a specific range. This not only reduces the energy dissipation, effectively lowering the operating temperature of the fixture, but also prevents AC over-voltage and short circuit loading making this fixture virtually maintenance free. Because the electronic driver allows the GAU-ADC-48-160W-LED-D-V2 to run at a cooler internal temperature and regulates the electrical current, energy efficiency and LED service hours are maximized while at the same time reducing operating costs and downtime incurred from the frequent servicing intervals required with other hotter running lights.

Network: The analog output module is equipped with five configurable channels. This unit works with 10/100 Base-T ethernet ports and allows static IP address assignment or DHCP, HTTP port selectable during setup. Compatible with 9-28V DC, the module features a 12-position, removable connector for power and outputs, as well as an accessible 8-pin RJ45 port. Operators can mount the device on walls, surfaces or din rails for space-saving benefits.

The integrated heat sink allows for efficient heat dissipation, preventing the LEDs from overheating and keeping the overall temperature of the fixture relatively low. Solid state LED technology eliminates the need for a ballast box and lamps, a cumbersome feature of fluorescent fixtures that add weight and require frequent repairs. This low profile light fixture features two adjustable brackets, providing operators with easy installation and allowing for adjustments of the light assembly.

This unit is designed to be either surface mounted or hung from cable or chain and includes built in mounts. This light comes with a multi-purpose mounting bracket that can be used for a direct surface mount or reversed and used for chain hanging the unit.

Suggested Applications: DALI lighting networks, remote lighting networks, warehouses, industrial buildings, general areas, manufacturing floors, commercial offices, garages, lobbies, schools, activity centers, government buildings and more.

At Larson Electronics, we do more than meet your lighting needs. We also provide replacement, retrofit, and upgrade parts as well as industrial grade power accessories. Our craftsmen can custom build any lighting system and/or accessories to fit the unique demands of your operation. A commitment to honesty, quality, and dependability has made Larson Electronics a leader in the lighting and electronics business since 1973. Contact us today at 800-369-6671 or message sales@larsonelectronics.com for more information about our custom options tailored to meet your specific industry needs.

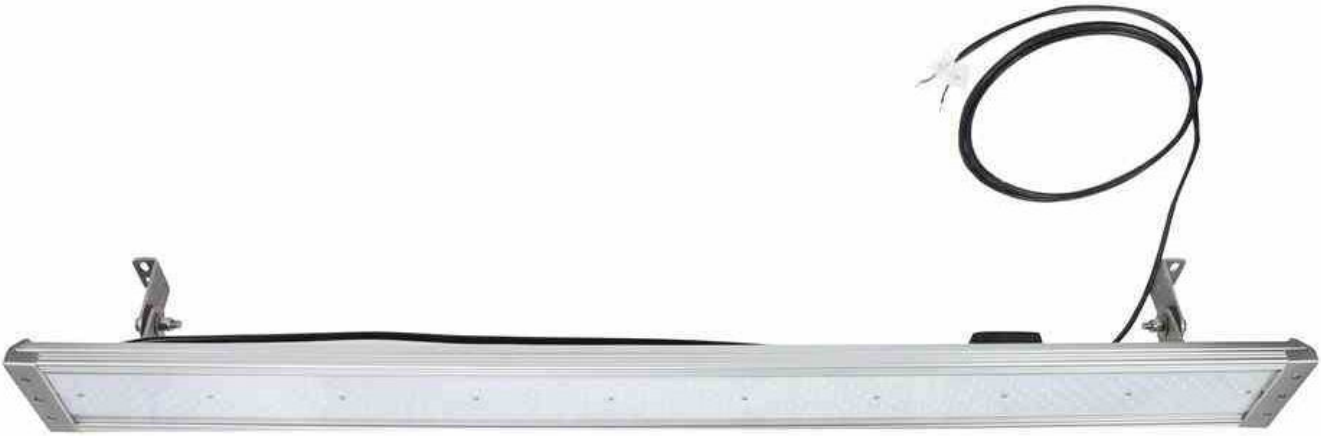
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Frequently Asked Questions (FAQ)









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GAU-ADC-48-160W-LED-D-V2

Product ID: 153732

Harmonized System (HS) Code: 9405.41.84.10
Export Control Classification Number (ECCN): EAR99

Options:

GAU-ADC-48-160W-LED-D-V2-Voltage

Example: GAU-ADC-48-160W-LED-D-V2-1227

Voltage	
120/277V	-1227
347-480V	-480
24V	-24

Links (Click on the below items to view):

- IES (Photometric File)
- HigResPic1
- HigResPic2
- HigResPic3
- HigResPic4
- HigResPic5
- HigResPic6
- HigResPic7
- HigResPic8
- HigResPic9
- HigResPic10
- Video1
- ISO 9001 Certification
- Business Certificate
- Shipping Time Map